

## ABSTRACT

An earth electrode is formed on the brim surface of the plug  
insulator and on the outer surface of the middle portion of  
5 the plug insulator along the axial direction. The earth  
electrode connected with one side of the combustion  
pressure sensor is provided on a whole surface opposite to a  
combustion pressure signal electrode. The earth electrode  
works also a shield member for shielding the high  
10 frequency noise generated inside the insulator. A part of  
the outer side of the earth electrode is covered by an  
insulating layer for insulating the earth electrode from the  
combustion pressure signal electrode. The combustion  
pressure sensor held between the insulator brim and  
15 electrode brim is given a prescribed compression load by a  
metal cylindrical bolt which presses down the electrode  
brim of the toward the combustion pressure sensor.

20

25